Tuesday, 11/13/2007 10:58:21 AM Chantal Lavoie "4" **Process Sheet** : CU-DAR001 Dart Helicopters Services : 02.750 SUPPORT (407AFT) **Drawing Name** Customer Job Number : 35578 : 11059 **Estimate Number** : D28941 Part Number P.O. Number : D2894 REV C S.O. No. : 11/13/2007 **Drawing Number** This Issue : NC : N/A Prsht Rev. **Project Number** MACHINED PARTS : // : C First Issue Type **Drawing Revision** : 35682 Material Previous Run Each : 12/13/2007 10 Um: Due Date Written By Checked & Approved By Comment 02.11.26 Added mask hole KJ ECN 993 07-11-07 DD verified by:EC **Additional Product** Job Number: Description: Seq. #: Machine Or Operation: **PURCHASING** PG 1.0 Comment: PURCHASING CLO7/11/13 Issue P/O: 4996 Description: D6104-009 Material: 17-4 PH SS (AMS 5643 OR AISI 630) as per Dwg D6104 Material release note required. Blank size makes (2) D2894-1 2.0 D6104009 17-4 SS Roundbar 5.25"OD 1.0000 Each(s)/Unit Total: 10.0000 Each(s) Comment: Qty.: 2.750 Support PACKAGING 1 PACKAGING RESOURCE #1 3.0 Comment: PACKAGING RESOURCE #1 Recieive & Inspect for Transit Damage Ensure Material Release Note is attached MORI SEIKI MORI SEIKI CNC LATHE LARCH 4.0 Comment: MORI SEIKI CNC LATHE LARGE Turn blank for Haas as per Folio FA253

Page 1

Form: rprocess

Dart Aerospace Ltd

W/O:	WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	By Date Qty Approval Chief Eng / Prod Mgr Approval QC Inspector						
t.									
	/								
	-								
			·.						

Part No: D 2894-1 PAR #: MA Fault Category: Pod Machined Finance: Yes No DQA: Date: 2005/08

QA: N/C Closed: D Date: 20185/12

NCR: 34	5578	~ W (ORK OR	DER NON-CONFORMANCE	E (NCR)			€ 70.
DATE	STEP	Description of NC Section A	Section A Initial Action Description Sign & Section C C					Approval QC Inspector
08.64.27	6	Dim "AE" 1.776 2.010 15 1.755". Caused by faulty culting	Chief Eng	Teel was replaced. A Sending face mill Book	Date	P /27/300	MD 78/04/28	d
		Face Mile has one insut set too low, o.o.d.	06/04/2	to solver & SCRAP PART POB.04.28		960	999	oblulze
		Ser. 100 1001 5 5						
				-4				
								. ,

NOTE: Date & initial all entries

Tuesday, 11/13/2007 10:58:22 AM Date: Chantal Lavoie Ùser: **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: 02.750 SUPPORT (407AFT) Job Number: 35578 Part Number: D28941 Job Number: Seq. #: Description: **Machine Or Operation:** QC1 INSPECT ALL DIM TO DIM SHEET 5.0 Comment: INSPECT ALL DIM TO DIM SHEET 6.0 HAAS1 Comment: HAAS Machine as per Folio FA253 Tumble & Deburr 7.0 QC1 INSPECT ALL DIM TO DIM SHEE Comment: INSPECT ALL DIM TO DIM SHEET QC8 SECOND CHECK Comment: SECOND CHECK HAND FINISHING RESOURCE #1 HAND FINISHING1 11.0 Comment: HAND FINISHING RESOURCE #1 Mask and prime inside surface as per dwg D2894 per Dart QSI 005 4.2 NSPECT POWDER COAT/CHEMICAL CONVERSI HAND FINISHING RESOURCE #1 9,0 Comment: HAND FINISHING RESOURCE #1 Mask primed area and 0.500" hole prior to paint as per dwg D2894 POWDER COATING 12.0 10.0 M107550 Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 INSPECT POWDER COAT/CHEMICAL CONVERSION 12.0 Comment: INSPECT POWDER COAT

Dart Aerospa	ace Ltd
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W/O:			WOF	RK ORDER CHANGES				· · · · · · · · · · · · · · · · · · ·
DATE	STEP	PR(OCEDURE CHANG	SE .	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	‡							
		ž.						
Part No	• •	PAR #:	Fault Catego	ry: No	CR: Yes I	No DQA:	Date: _	
					QA: N/	C Closed:	Date: _	
NCR:			WORK ORDER	R NON-CONFORMANC	E (NCR)		
		Description of NC	Co	orrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial	Action Description	Sign &	Section C	Chief Eng	QC Inspector

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC	Corrective Action Section B		Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
		,										
				-								

NOTE: Date & initial all entries

Date: . Tuesday, 11/13/2007 10:58:22 AM Chantal Lavoie

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 02.750 SUPPORT (407AFT)

Job Number: 35578

Part Number: D28941

Job Number:



Seq. #:

Machine Or Operation:

Description:

130

PACKAGING 1

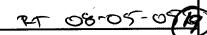
PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: X-tube



15:0 14.0 QC21

FINAL INSPECTION/W/O RELEASE



08/05/66

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



MF 08.05-05

Dart Aerospace Ltd

W/O:		WORK ORDER CH	WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
				<u> </u>							
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:					

QA: N/C Closed: ____ Date: ___

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B		Verification	Ammanual	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	ction Description Sign &		Approval Chief Eng	Approval QC Inspector	
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3

NOTE: Date & initial all entries

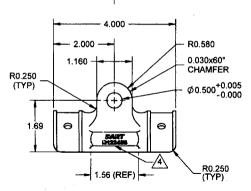
MASK THIS HOLE PRIOR TO PAINT 0.100 R0.031 (TYP) (TYP) 0.728 0.100 0.060 (TYP) (TYP) (TYP) R0.063 (TYP AL INSIDE 0.464 3 072 SECTION A-A

Nee D An Answer on this Park

Dim 1.776 is 1.755. Scrpper good. Downing

-HOLES

WITHIN 0.005
OVER ENTIRE LENGTH 0



D2894-1 SUPPORT

1.776 0.505 R0.600 2.27 R1.389^{+0.005} (REF) 1.894 1.19 (REF) (REF) R0.063 (REF) 7.80 PRIME ONLY 2 1 3.07 (REF)

NOTES:

1) MATERIAL: 17-4 PH STAINLESS STEEL
HEAT TREAT TO H900 CONDITION
(900°F FOR 1 HR, AIR COOL)
MIN UTS = 170 KSI (38 HRc)

2) FINISH: POWDER COAT WHITE (REF 4.3.5.2) PER DART QSI 005 4.3
PRIME INSIDE SURFACE AS SHOWN PER DART QSI 005 4.2

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
4) 0.50° WIDE x 1.56° LONG x 0.005° MIN HEIGHT FLAT,
WITH R0.25 RADIUS OF TRANSITION IN THIS AREA
IDENTIFY WITH DART I (OGO AND PART NI IMPER ON ONE

SCALE 1:1

- IDENTIFY WITH DART LOGO AND PART NUMBER ON ONE SIDE AND DART LOGO AND BATCH NUMBER ON OPPOSITE SIDE USING 0.010-0.020 DEEP LETTERING
- 5) PART IS SYMMETRIC ABOUT CENTERLINE
 6) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
 7) BREAK ALL SHARP EDGES 0.010 TO 0.020 MAX

RELEASE 67.07.04

С		07.07.04	ADD MASKING AND PRIME ONLY NOTES REFORMATTED DRAWING	5,				
В		02.07.17	AS MANUFACTURED					
A		02.04.02	NEWISSUE					
REV		DATE	DESCRIPTION					
DESIG	PI	DRAWN BY	DART AEROSPACE LTI HAWKESBURY, ONTARIO, CANADA	-				
CHEC	KED	APPROVED	DRAWING NO.	REV. C				
	-P	-H-	D2894 s	HEET 1 OF 1				
DATE		-	TITLE	SCALE				
	07.0	7.04	Ø2.750 SUPPORT	1:2				
THIS	COPYRIGHT © 2007 BY DARY AEROSPACE LTD THIS COCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLED ON THE EXPRESS COMMUNION THAT IT IS NOT TO BE USED FOR ANY PLADORS							

MENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

DART AEROSPACE LTD	Work Order:	35578
Description: Ø2.750 Support	Part Number:	D2894-1
Inspection Dwg: D2894 Rev. B1		Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2894 Rev B1/DSK079 Rev A and record below:

				Red	corded Actu	ual Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
				Lathe	e Section				
Α	2.778	2.783		2.779	2.780	2786	2,780		
В	3.990	4.010		3.999	4.004	3,995	3.995		
С	3.088	3.108		3.099	3.099	3,100	3.100		
D	0.718	0.738		728	.728	-726	.726		
Е	0.090	0.110		./00	, 200	.100	. 100		
F	2.968	2.988		2979	2.979	2,980	2,980		
G	1.410	1.430		1,417	1418	11420	1.400		
Н	1.150	1.160		1.159	1.159	1,159	1.159		
1	5.240	5.260		5.280	E 250	5/250	51250		
J	0.022	0.042	<u> </u>	.032	.032	.032	.032		
K	0.240	0.260		,250	.250	1250	-250		
L	0.090	0.110		.099	.099	1100	,106		
М									
		'		HAAS	S Section				
AA	0.454	0.474		- 4/64	.464	.469	. 46c		
AB	3.062	3.082		3.072	7.072	3.072	3-072		
AC	0.053	0.073		-063	-06-3	-063	-063		
AD	0.971	0.991		975	. 480	. 990	. 480		
AE	1.766	1.786		1-760	1.785	1.796	1.782		<u> </u>
AF	0.020	0.040		-030	.670	1430	1630,		
AG	0.257	0.262	DT8683	.258	.258	258	-258		<u> </u>
AH	0.053	0.073		-063	.063	-063	·063		
AI	3.04	3.10		3,069	3.050	3.050	3-050		
AJ	1.990	2.010		2.000	7000	7.003	1.996		
AK	0.240	0.260		-250 1.897	-250	-250	-250		
AL	1.884	1.904			1.894	1-894	1-854		
AM	0.500	0.505	DT8708	-500	.500	، څون	.500		
AN	0.189	0.194		189	-189	-189	189		
	En	sure the	nt Ø0.500" bo	re is nerne	andicular t	0 1 389" be	re within (003"	
				Te is beibe	, indicatal t	- 1.000 D	J. O 111011111		. ,
	ACC	ept/Reje	UL .	1	l	L	I		

Measured by: Col J.L	Audited by
Date: 08/04/15	Date: 08/04/29

Rev	Date	Change	Revised by	Approved
Α	02.12.12	New Issue	KJ/RF	
В	06.03.08	DT8708 added to dimension AM	KJ/JLM 1.A	
С	06.11.22	Note added to HAAS section	KJ/JLM 🚓	E
			. ()	

DART AEROSPACE LTD	Work Order:	35578
Description: Ø2.750 Support	Part Number:	D2894-1
Inspection Dwg: D2894 Rev. B1		Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2894 Rev B1/DSK079 Rev A and record below:

				Red	corded Actu	ual Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	15	24	87	18	Ву	Date
					Section				
Α	2.778	2.783		2.780	2.780	2.780	2.780		
ͺΒ	3.990	4.010		3-995	3.995	3-995	3.995		
С	3.088	3.108		3-100	3:100	3,100	3.100		
D	0.718	0.738		.726	.726	1726	.726		
E	0.090	0.110		,100	100	160	,100		
F	2.968	2.988		2,980	2.980	2,980	2,980		
G	1.410	1.430		11426	11420	1.420	1.420		
Н	1.150	1.160		1,159	1-159	1.159	1.159		
- 1	5.240	5.260		5.250	5,050	5,750	5.250		
J	0.022	0.042		1032	.032	.132	.032		
K	0.240	0.260		.250	. 250	. 250	.250		
L	0.090	0.110		.100	.100	. 100	-100		
M	,								
	<u> </u>			HAAS	Section				
AA	0.454	0.474		464	161	.4163	-461		
AB	3.062	3.082		3,072	3.072	3.072	3.072		
AC	0.053	0.073	-	w 063	-063_	.063	.063		
AD	0.971	0.991		- 063 - 986	. 978	972	.985		
AE	1.766	1.786		1.770	1.773	1.773	1.775		
AF	0.020	0.040		.030	-030	030	.030		
AG	0.257	0.262	DT8683	-258	. à\$x	-25%	-258		
AH	0.053	0.073		.063	.063	.063	063		
AI ·	3.04	3.10		3.065	3.068	3.065	3.065		
AJ	1.990	2.010		3.065	2.003	1.997	3.065		
AK	0.240	0.260	a	T Jso i			-250		
AL	1.884	1.904	·	1.904	7.899	7.893	-250 1.890		
AM	0.500	0.505	DT8708	-500	.500				
AN	0.189	0.194		.189	.500 -189	-189 -189	.189		
	En	sure tha	ıt Ø0.500" bo	ore is perpe	ndicular t	o 1.389" bo	ore within 0	.003"	
	Acc	ept/Reje	ct						

	1	
Measured by:	15.L	Audited by 318
Date: 08/04/15	08/04/29	Date: 08/04/29
	9 (1) 9 1/ 9 - 1	

Rev	Date	Change	Revised by	Approved
Α	02.12.12	New Issue	KJ/RF	
В	06.03.08	DT8708 added to dimension AM	KJ/JLM , ,	
С	06.11.22	Note added to HAAS section	KJ/JLM 🚓	E

DART AEROSPACE LTD	Work Order:	35578
	D-4 N	D2004.4
Description: Ø2.750 Support	Part Number:	D2894-1
Inspection Dwg: D2894 Rev. B1		Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2894 Rev B1/DSK079 Rev A and record below:

			•	Re	corded Actua	I Dimensi	ons		
Dìm	Min	Max	Go/No Go Gauge	19	210	3	4	Ву	Date
				Lath	e Section				
Α	2.778	2.783		2.780	2,780				
В	3.990	4.010		3-995	3,995				
С	3.088	3.108		3,100	3, 100				
D	0.718	0.738		-726	.726				
E	0.090	0.110		1100	.100				
F	2.968	2.988		2,980	2,980				
G	1.410	1.430		1.420	1.420				
Н	1:150	1.160		1.159	1.159				
1	5.240	5.260		5.250	5,250				
J	0.022	0.042		1032	,032				
K	0.240	0.260		,250	1250				· ·
L	0.090	0.110		1100	-100				
M									
				HAAS	S Section				
AA	0.454	0.474		1160	-461				
AB	3.062	3.082		3.072	3072				
AC	0.053	0.073		-063	-063				
AD	0.971	0.991		1985	975				
ΑE	1.766	1.786		1.774	1.771				
AF	0.020	0.040		· 0 30	.030				
ÄG	0.257	0.262	DT8683	. 258	-258			_	
AH	0.053	0.073	·	.063	-063				
ΑI	3.04	3.10		3.063	3.065				
AJ	1.990	2.010							
AK	0.240	0.260		-250	-250				
AL	1.884	1.904		1.890	1.899				
AM	0.500	0.505	DT8708	-200	.500				
AN	0.189	0.194		189	189		·	-	
	En	sure tha	ıt Ø0.500" bo	ore is perpe	endicular to	1.389" bo	ore within	0.003"	
•	Acc	ept/Reje	ct						

Measured by: 20	Audited by 2.7
Date: 08/09/15/08/04/79	Date: 08/04/29

Rev	Date	Change	Revised by	Approved
Α	02.12.12	New Issue	KJ/RF	
В	.06.03.08	DT8708 added to dimension AM	KJ/JLM , ,	
С	06.11.22	Note added to HAAS section	KJ/JLM 🚓	E

VALBRUNA SLATER STAINLESS, INC. 2400 Taylor Street West, P.O. Box 63 Fort Wayne, Indiana USA 46801 Phone: 260-434-2892 Fax: 260-434-

Product Certification Report

Report Number: 4306470

	Fort Wa	yne, Indian 260-434-28	a USA 4	6801	2905	Ce	rtifi	.eđ	on O	ct 03	, 2007	Pa	ge 1	of 2
Order I.D.		Order I	Date	Commo	dity Coda							•		1
]	001	7/12	2/07	600	4									
Oim 1	Ť	Dim 2		m 3		t1.D. C	ustomer 1.D	Cust	tomer Purc	hase Order				
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Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes, including Federal law, Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services



SLAT 2400 Taylor Fort Wayn Phone: 26

VALBRUNA

SLATER STAINLESS, INC. 400 Taylor Street West, P.O. Box 630 ort Wayne, Indiana USA 46801

Product Certification Report

Report Number: 4306470

	, P	ori Wa hone:	yne, Indiani 260-434-289	2 Fax: 2	16807 260-434-2	905	C	erti	fie	d on	001	t 0	3, 2	007	Page	<u>e</u>	2	o£	2
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Quality system is compliant with ISO 9001:2000, Produced in accordance with EN 10204 3.1B.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes, including Federal law, Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Dennis Hackett



AMS 5643 / AMS 5622 (17-4PH)

17%Cr 4%Ni Precipitation Hardening Stainless Steel Single Melted or Vacuum Arc Remelted (VAR)

Features & Benefits

- Medium to high strengths developed by appropriate ageing treatment
- Corrosion resistant
- Good transverse properties in remelted grade

Applications

Aircraft structural parts

Supply Condition & Availability

- Supplied as solution treated bright machining quality bar
- Also available on request aged to specific "H" condition
- Stock sizes range 12.7 mm 250 mm dia.
- Other sections on request

Related specs

MSRR 6601 Z7 CNU17.04 1.4548

Chemical Composition (Wx %)

	Min	Max
С	-	0.07
Si	-	1.00
Mn	-	1.00
Р	<u>-</u>	0.040
S	. -	0.030
Cr	15.00	17.50
Мо	-	0.50
, Ni	3.00	5.00
/ Nb (Cb)	5xC	0.45
Cu	3.00	5.00

Final Heat Treatment

Solution treat @ 1038°C. Age @ appropriate temperature for relevant "H" condition. (Hxxx condition aged at xxx°F).

Mechanical Properties

Condition	0.2% Proof Stress	Tensile Strength	Elong	gation	Redu of a	iction irea	Hardness		
	MPa	MPa	9	6	9	6	HE	3	
	Min	Min	Min Min		lin	Min	Max		
			Long.	Trans.	Long.	Trans.			
H900	1172	1310	10	6	35	20	388	444	
H1000	1069	1172	10	7	38	25	375	429	
H1025	1000	1069	12	8	45	32	331	401	
H1050	862	1000	13	9	45	33	311	375	
H1100	793	965	14	10	45	34	302	363	
H1150	724	931	16	11	50	35	277	352	

Specified strength levels refer to both Transverse and Longitudinal directions.

N.B. $1Mpa = 1 N/mm^2$

